

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1744.0250001APPLICATION NO.  
09/476,092APPLICANT  
Sorrells et al.FILING DATE  
January 3, 2000GROUP  
2682

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA10	4,504,803	03/1985	Lee et al.	332	31 R	
NM	AB10	4,517,519	05/1985	Mukaiyama	329	126	
NM	AC10	4,517,520	05/1985	Ogawa	329	145	
NM	AD10	4,518,935	05/1985	van Roermund	333	173	
NM	AE10	4,521,892	06/1985	Vance et al.	375	88	
NM	AF10	4,563,773	07/1986	Dixon, Jr. et al.	455	327	
NM	AG10	4,577,157	03/1986	Reed	329	50	
NM	AH10	4,583,239	04/1986	Vance	375	94	
NM	AI10	4,591,736	05/1986	Hirao et al.	307	267	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ10	WO 97/38490 A1	10/1997	PCT	H03K	7/00	N/A
NM	AK10	WO 98/00953 A1	01/1998	PCT	H04L	27/26	N/A
NM	AL10	WO 98/24201 A1	06/1998	PCT	H04H	1/00	N/A
NM	AM10	EP 0 099 265 A1	01/1984	EP	H03D	3/04	N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	10	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).
NM	AO	10	Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," <i>IEE Proceedings-H: Microwaves, Antennas and Propagation</i> , IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).
NM	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No. 2, pp. 169-173 (April 1987).
NM	AQ	10	Gilchrist, B. et al., "Sampling hiker performance of frequency synthesizers," <i>Microwaves &amp; RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).
NM	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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7/25/02

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA9	4,392,255	07/1983	Del Giudice	455	328	
NM	AB9	4,430,629	02/1984	Betzl et al.	333	165	
NM	AC9	4,446,438	05/1984	Chang et al.	328	127	
NM	AD9	4,456,990	06/1984	Fisher et al.	370	119	
NM	AE9	4,472,785	09/1984	Kasuga	364	718	
NM	AF9	4,479,226	10/1984	Prabhu et al.	375	1	
NM	AG9	4,481,490	11/1984	Huntley	332	41	
NM	AH9	4,481,642	11/1984	Hanson	375	9	
NM	AI9	4,485,488	11/1984	Houdart	455	327	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ9	WO 94/05087 A1	03/1994	PCT	H03M	1/00	N/A
NM	AK9	WO 96/02977 A1	02/1996	PCT	H04B	1/26	N/A
NM	AL9	WO 96/08078 A1	03/1996	PCT	H03D	3/00	N/A
NM	AM9	WO 96/39750 A1	12/1996	PCT	H04B	1/26	N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	2	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
NM	AO	2	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
NM	AP	2	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
NM	AQ	2	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
NM	AR	2	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA8	4,320,536	03/1982	Dietrich	455	325	
NM	AB8	4,346,477	08/1982	Gordy	455	257	
NM	AC8	4,355,401	10/1982	Ikoma et al.	375	5	
NM	AD8	4,356,558	10/1982	Owen et al.	364	724	
NM	AE8	4,360,867	11/1982	Gonda	363	158	
NM	AF8	4,363,132	12/1982	Collin	455	52	
NM	AG8	4,365,217	12/1982	Berger et al.	333	165	
NM	AH8	4,370,572	01/1983	Cosand et al.	307	353	
NM	AI8	4,389,579	06/1983	Stein	307	353	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ8	JP 2-39632	02/1990	JP	H04B	7/12	No
NM	AK8	JP 2-131629	05/1990	JP	H04B	7/12	No
NM	AL8	JP 2-276351	11/1990	JP	H04L	27/22	No
NM	AM8	WO 80/01633 A1	08/1980	PCT	H04J	1/08	N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, published May 21, 1990, (1 Page).
NM	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, published February 8, 1990, (1 Page).
NM	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published December 26, 1996, (3 Pages).
NM	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February 18, 1981, (2 Pages).
NM	AR	8	"DSO takes sampling rate to 1 Ghz," Electronic Engineering, Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

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NM	AA7	4,142,155	02/1979	Adachi	325	47	
NM	AB7	4,170,764	10/1979	Salz et al.	332	17	
NM	AC7	4,204,171	05/1980	Sulphin, Jr.	328	167	
NM	AD7	4,210,872	07/1980	Gregorian	330	9	
NM	AE7	4,245,355	01/1981	Pascoe et al.	455	326	
NM	AF7	4,253,066	02/1981	Fisher et al.	329	50	
NM	AG7	4,253,069	02/1981	Nosseck	330	107	
NM	AH7	4,308,614	12/1981	Fisher et al.	370	119	
NM	AI7	4,320,361	03/1982	Kikkert	332	16 R	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ7	EP 0 874 499 A2	10/1998	EP	H04L	25/06	N/A
NM	AK7	FR 2 743 231 A1	07/1997	FR	H04B	7/12	No
NM	AL7	GB 2 161 344 A	01/1986	GB	H04B	7/12	N/A
NM	AM7	GB 2 215 945 A	09/1989	GB	H04L	27/00	N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	Z	Copy of Declaration of Richard C. Looker filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).
NM	AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA6	4,013,966	03/1977	Campbell	325	363	
NM	AB6	4,019,140	04/1977	Swordlow	322	65	
NM	AC6	4,035,732	07/1977	Lohrmann	325	446	
NM	AD6	4,047,121	09/1977	Campbell	331	76	
NM	AE6	4,066,841	01/1978	Young	178	66 R	
NM	AF6	4,066,919	01/1978	Huntington	307	353	
NM	AG6	4,081,748	03/1978	Batz	325	56	
NM	AH6	4,130,765	12/1978	Arakelian et al.	307	220 R	
	AI6	4,130,806	12/1978	Van Gerwen et al.	325	487	

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NM	AJ6	EP 0 785 635 A1	07/1997	EP	H04B	1/713	No
NM	AK6	EP 0 795 978 A2	09/1997	EP	H04L	5/06	N/A
NM	AL6	EP 0 837 565 A1	04/1998	EP	H04B	1/69	N/A
NM	AM6	EP 0 862 274 A1	09/1998	EP	H03M	1/06	N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	6	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
NM	AO	6	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
NM	AP	6	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AQ	6	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
NM	AR	6	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

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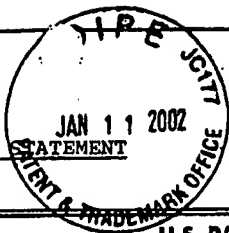
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NM	AA20 5,136,267	08/1992	Gabot	333	174	
NM	AB20 5,140,705	08/1992	Kosuga	455	318	
NM	AC20 5,150,124	09/1992	Moore et al.	342	68	
NM	AD20 5,151,661	09/1992	Caldwell et al.	328	14	
NM	AE20 5,159,710	10/1992	Cusdin	455	304	
NM	AF20 5,170,414	12/1992	Silvian	375	59	
NM	AG20 5,172,070	12/1992	Hiraiwa et al.	329	304	
NM	AH20 5,191,459	03/1993	Thompson et al.	359	133	
NM	AI20 5,204,642	04/1993	Ashgar et al.	331	135	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ20					Yes No
	AK20					Yes No
	AL20					Yes No
	AM20					Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	20	Ndizi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997).
NM	AO	20	"New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
NM	AP	20	Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).
NM	AQ	20	Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).
NM	AR	20	Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

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MM	AA26	5,434,546	07/1995	Palmer	332	151	
	AB26	5,438,692	08/1995	Mohindra	455	324	
	AC26	5,444,415	08/1995	Dent et al.	329	302	
	AD26	5,444,416	08/1995	Ishikawa et al.	329	341	
	AE26	5,444,865	08/1995	Heck et al.	455	86	
	AF26	5,446,421	08/1995	Kechkaylo	332	100	
	AG26	5,446,422	08/1995	Mattila et al.	332	103	
	AH26	5,448,602	09/1995	Ohmori et al.	375	347	
	AI26	5,451,899	09/1995	Lawton	329	302	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ26						Yes No
	AK26						Yes No
	AL26						Yes No
	AM26						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	26	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).
NM	AO	26	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).
NM	AP	26	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).
NM	AQ	26	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).
NM	AR	26	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

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**THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
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2683**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA50	3,852,530	12/1974	Shen			
	AB50	4,220,977	09/1980	Yamanaka			
	AC50	5,016,242	05/1991	Tang			
	AD50	5,937,013	08/1999	Lam et al.			
	AE50	6,014,551	01/2000	Pesola et al.			07/16/1997
	AF50	6,073,001	06/2000	Sokoler			05/08/1998
	AG50	6,085,073	07/2000	Palermo et al.			03/02/1998
	AH50	6,400,963 B1	06/2002	Glöckler et al.			05/21/1999
	AI50	6,230,000 B1	05/2001	Taylor			10/15/1998

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	AJ23	WO 00/31659 A1	06/2000	PCT			N/A

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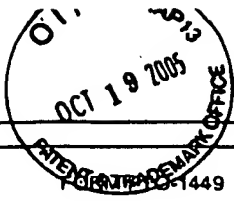
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

NM	AN	58	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
NM	AO	58	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
NM	AP	58	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics &amp; Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
NM	AQ	58	Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
NM	AG65	4,789,837	12/1988	Ridgers	—	—	
NM	AH85	5,634,207	05/1997	Yamaji et al.	—	—	
NM	AI65	5,642,071	06/1997	Sevenhans et al.	—	—	

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM23	DE 692 21 098 T2	01/1998	DE			No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
NM	AQ59	Hellwarth, G.A. and Jones, G.D. "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).
NM	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

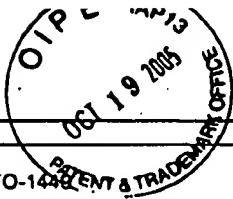
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Neghosh Mehrotra

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David F. SorrellsFILING DATE  
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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA66	6,211,718 B1	04/2001	Souetlnov	—	—	
NM	AB66	6,212,369 B1	04/2001	Avasarala	—	—	
NM	AC66	6,308,058 B1	10/2001	Souetlnov et al.	—	—	
NM	AD66	6,633,194 B2	10/2003	Arnborg et al.	—	—	
NM	AE66	2001/0036818 A1	11/2001	Dobrovolny	—	—	
NM	AF66	6,873,836 B1	03/2005	Sorrells et al.	—	—	
NM	AG66	6,879,817 B1	04/2005	Sorrells et al.	—	—	
NM	AH66	6,057,714	05/2000	Andrys et al.	—	—	
NM	AI66	5,994,689	11/1999	Charrier	—	—	

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	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

*Wayne H. Lehman*

DATE CONSIDERED

4/21/07

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FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0250001APPLICATION NO.  
09/476,092FIRST NAMED INVENTOR  
David F. SorrellsFILING DATE  
January 3, 2000ART UNIT  
2686

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA67	6,512,544 B1	01/2003	Merrill <i>et al.</i>	—	—	
NM	AB67	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>	—	—	
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NM	AE67	4,286,283	08/1981	Clemens	—	—	
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NM	AG67	5,014,130	05/1991	Heister <i>et al.</i>	—	—	
NM	AH67	5,390,215	02/1995	Anita <i>et al.</i>	—	—	
NM	AI67	5,805,460	09/1998	Greene <i>et al.</i>	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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	AO	
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